7110 SNMP T1/FT1 DSU/CSU

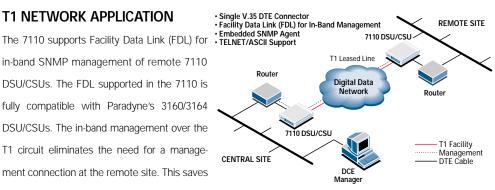


- SIMPLE TO INSTALL AND SETUP USING FASY-TO-FOLLOW INSTRUCTIONS
- STANDARD INTERFACE CONNECTORS FOR DATA EQUIPMENT, NETWORK MANAGE-MENT AND TERMINAL PORTS
- MANAGED BY PARADYNE'S DCE MANAGER AND PERFORMANCE WIZARD™ SNMP APPLICATIONS
- MANAGEMENT AND DIAGNOSTICS TO A REMOTE SITE WITHOUT DEPENDENCY ON THE ROUTER VIA FDL. THIS PROVIDES THE ABILITY TO TEST THE T1 CIRCUIT AND THE 7110 DSU/CSU EVEN IF THE ROUTER IS NOT FUNCTIONAL.
- MULTIPLE MANAGEMENT METHODS (ASCII, TELNET, IN-BAND, OUT-OF-BAND) OFFERS FLEXIBILITY TO MATCH INSTALLA-TION AND APPLICATION REQUIREMENTS
- FULL NETWORK, DIAGNOSTIC, AND MANAGEMENT COMPATIBILITY WITH PARADYNE'S ACCULINK® 3160 SERIES DSU/CSUs
- PEACE OF MIND KNOWING YOU HAVE SELECTED ONE OF THE MOST RELIABLE T1 SNMP DSU/CSUs IN THE INDUSTRY

conomical, reliable transportation for application data traffic is provided by Paradyne's 7110 SNMP T1/Fractional T1 DSU/CSU, making today's network manager worry free. State-of-the-art design is ideal for today's standards-based management networks, providing a single V.35 DTE port for data applications and two EIA-232 ports for SNMP management and ASCII setup. The 7110 supports Facility Data Link (FDL) for non-disruptive, in-band SNMP management over T1 networks and provides SNMP management over Fractional T1 and Frame Relay networks with a connection from the 7110 management port to a remote router AUX port or external LAN adapter.

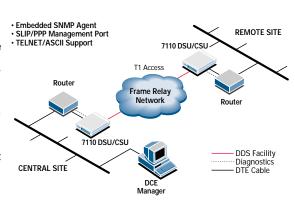
T1 NETWORK APPLICATION

in-band SNMP management of remote 7110 DSU/CSUs. The FDL supported in the 7110 is fully compatible with Paradyne's 3160/3164 DSU/CSUs. The in-band management over the T1 circuit eliminates the need for a management connection at the remote site. This saves the cost of an additional router port or the cost of an external LAN adapter at the distant end.



FRAME RELAY NETWORK APPLICATION

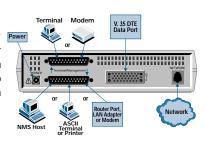
The 7110 DSU/CSU is a natural fit in Frame Relay networks. Remote management is provided through a router AUX port or an external LAN adapter. The 7110 presents a very cost effective option for high-speed access over Frame Relay networks. The unit offers SNMP management for maximizing network availability on mission-critical applications.



- DIRECT SNMP MANAGEMENT
- T1 AND FT1 SUPPORT
- SINGLE V.35 DATA PORT
- PROVIDES FDL FOR T1 IN-BAND SNMP MANAGEMENT
- SUPPORTS Nx56 AND Nx64 Kbps **APPLICATIONS**
- FRIENDLY ASCII (VT-100) USER INTERFACE
- DUAL EIA-232 (DB-25) CONNECTORS FOR ASCII INTERFACE AND NETWORK MANAGEMENT
- SLIP OR PPP MANAGEMENT CONNECTION PROTOCOL
- MIB II AND ENTERPRISE MIB SUPPORT
- **TELNET**
- 5-YEAR WARRANTY, RETURN TO FACTORY

PORTS AND CONNECTORS

The 7110 provides a single V.35 connector for connection of a router or Power other data equipment (DTE). The ASCII terminal port can support either a direct connect ASCII terminal for local setup and diagnostics, or a modem connection for remote access to the terminal port for setup and diagnostics. The management port can be directly connected to an SNMP manager, an ASCII terminal or printer for alarms to be printed, or connected to a router port or external LAN adapter for SNMP management.



7110 SPECIFICATIONS

Approvals

FCC Part 15: Class A digital device FCC Part 68: Refer to the equipment's label for Registration Number

Listed UL 1950

Certified CSA 1080.0 M1983

Safety: Certified Component CSA 22.2, No. 950-M93

Emissions Class A digital apparatus

Clock Sources

T1 network interface, port, or internal clock

Environment

Operating Temperature: 32° to 122° F (0° to 50° C) Storage Temperature: -4° to 158° F (-20° to 70° C) Relative Humidity: 5% - 95% (non-condensing) Shock and Vibration: Withstands normal shipping and handling

Network T1 Interface

Physical Interface (USA): RJ48C

Physical Interface (Canada): CA81A using adapter cable

(Optional feature 3100-F1-501) Framing Format: D4, ESF

Coding Format: AMI, B8ZS Line Build-Out (LBO): 0.0 dB, -7.5 dB, -22.5 dB

ANSI PRM: Selectable

Bit Stuffing: FCC Part 68, AT&T TR 62411

Loopbacks

Standard: AT&T TR 54016, AT&T TR 62411,

ANSI T1.403.1989

Additional: LLB (Line Loopback), PLB (Payload Loopback), RLB (Repeater Loopback), DTLB (Data Terminal Loopback), DCLB (Data Channel Loopback), V.54 Loop 2 and Loop 3, ANSI T1.403 Annex B Fractional T1 Loopback

Front Panel Indicators

System LEDs:

OK = Normal Operation

FAIL = Fault in DSU

TEST = Test in Progress

Network LEDs:

SIG = Signal Present

OOF = Out of Frame ALARM = Alarm Condition

EER = Excessive Error Rate

Port LEDs:

TXD = Transmit Data

RXD = Receive Data RTS = Request To Send

CTS = Clear To Send

DTR = Data Terminal Ready

NMS Compatibility

SNMP Network Manager

IP Connectivity

Up to 20 routes

MIB II Object Groups Supported

ICMP group

- Interfaces group:
 - T1 network
 - · DTE Data port
 - Terminal port
- · Management port III. IP group
- SNMP group
- System group
- TCP group VI.
- VII. Transmission group:
 - T1 network DS1/E1 MIB • DTE Data port - RS-232-like MIB
 - Terminal port RS-232-like MIB
 - Management port -RS-232-like MIB

VIII. UDP group

DTE Port Interface

Standards: 34-pin connector (socket) ITU V.35 (ISO 2593) Rates: Nx64: 64 Kbps - 1.536 Mbps Nx56: 56 Kbps - 1.344 Mbps

Management Port

25-pin DB-25 connector (socket) EIA-232 / ITU V.24 (ISO 2110)

Management Port Data Rates

9.6, 14.4, 19.2, 28.8, and 38.4 Kbps Synchronous/Asynchronous 2.4, 4.8 asynchronous only

Terminal Port

25-pin DB-25 connector (socket) EIA-232 / ITU V.24 (ISO 2110)

Terminal Port Data Rates

2.4, 4.8, 9.6, 14.4, 19.2, 28.8, and 38.4 Kbps

Async Terminal

ANSI X3.64/VT-100 compatibility

Data Rate: 2.4, 4.8, 9.6 (Default), 14.4, 19.2, 28.8, and

38.4 Kbps

8 bits per character, 1 stop bit, no parity

Housing

Height: 2.13" (54.1mm) Width: 9.14" (231.2mm)

Depth (case): 6.15" (157.5mm)

Depth (case and connectors): 6.51" (164.3mm)

Power Consumption and Dissipation

4.5 watts, 15.4 BTU/hr. at 120V AC

Power Requirements

120V AC ± 12V AC 60 Hz ± 3 Hz

For additional information on this or any Paradyne product or service, contact the office nearest you. Or, dial toll-free (USA) 800 PARADYNE or call 813 530-8623. Fax (USA) 813 530-8216.

Toronto 905 709-5000 fax: 905 709-3469 Furone 44-1-753-515000 fax: 44-1-753-550011 Hong Kong 852 2543-0083 fax: 852 2541-3767 Singapore 65 355-5230 fax: 65 355-5244

Montreal 514 288-0001 fax: 514 288-1246 Japan 81 3-5541-6630 fax: 81 3-5541-6631 Latin America 813 530-8358 fax: 813 532-5240 Visit the Paradyne Power Pages at http://www.paradyne.com

Specifications subject to change without notice. Printed in U.S.A. @Paradyne Corporation 1997.

ACCULINK is a registered trademark of Paradyne Corporation. PARADYNE and Performance Wizard are trademarks of Paradyne Corporation. All other products or services mentioned are the trademarks, service marks, registered trademarks, or registered service marks of their respective owners.



